

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) In a code-division-multiple-access (CDMA) system employing spread-spectrum modulation comprising a base station (BS) comprising a BS-spread-spectrum transmitter and a BS-spread-spectrum receiver, and a plurality of mobile stations, each mobile station (MS) comprising ~~an~~^a MS-spread-spectrum transmitter and ~~an~~^a MS-spread-spectrum receiver, a method comprising the steps of:

computing an initial power estimate for a first access attempt by one of the mobile stations;

transmitting from the MS-spread-spectrum transmitter of the one mobile station a spread-spectrum signal signifying a first attempt to utilize a random access channel, at a power level based on the initial power estimate;

receiving one or more access attempt signals relating to the random access channel at the BS-spread-spectrum receiver;

measuring the one or more access attempt signals received by the BS-spread-spectrum receiver;

computing a closed loop power control symbol specifying an extent that power of the [[of]] measured one or more received access attempt signals differs from a target power;

broadcasting a control message containing the closed loop power control symbol from the BS-spread-spectrum receiver; and

if the MS-spread-spectrum receiver of the one mobile station does not detect an acknowledgement responsive to the first access attempt of the one mobile station:

(a) receiving the broadcast control message and obtaining the closed loop power control symbol;

(b) processing a signal received from the base station in the MS-spread-spectrum receiver of the one mobile station to produce an open loop power control symbol specifying an extent of a change in power for uplink transmissions regarding the random access channel;

(c) generating a power control command as a function of both the closed loop power control symbol and the open loop power control symbol; and

(d) transmitting from the MS-spread-spectrum transmitter of the one mobile station a spread-spectrum signal signifying a second attempt to utilize the random access channel, at a power level based on the power control command.

2. (Original) The method as in claim 1, wherein each of the power control symbols comprises a multi-bit symbol.

3. (Currently Amended) The method as in claim 1, wherein ^{one}the mobile station delays the step of transmitting the spread-spectrum signal signifying [[a]] the second attempt to utilize the random access channel by a predetermined amount, in response to at least one possible combination of values of the closed loop power control symbol and the open loop power control symbol.

4. (Currently Amended) The method as in claim 1, wherein:
the step of measuring the one or more access attempt signals comprises measuring a signal to noise ratio of the one or more access attempt signals at the BS-spread-spectrum receiver; and

9. (Original) The method of claim 8, wherein each of the signals signifying one of the attempts to utilize the random access channel comprises a preamble code sequence associated with the random access channel and a data message.

10. (Currently Amended) The method of claim 8, wherein:
the power control command can specify different levels of increase or decrease in transmission power for control of the signal transmission signifying the second attempt; and
the composite power control command can specify a back-off by the mobile station.

11. (Currently Amended) A code-division-multiple-access (CDMA) wireless remote station, comprising:

a CDMA transmitter;

a CDMA receiver; and

a controller coupled to the CDMA receiver for responding to signals received via the CDMA ^{CDMA}~~wireless~~ receiver and coupled for controlling the CDMA transmitter, such that in operation the CDMA ^{wireless}~~remote~~ station is for performing the following steps:

transmitting a spread-spectrum signal signifying a first attempt to utilize ~~[[the]]~~ a random access channel, from the ~~mobile~~ wireless remote station, at a predetermined power level; and

if the ~~mobile~~ wireless remote station does not detect an acknowledgement responsive to the first ~~access~~ attempt:

receiving a broadcast control message from ~~[[the]]~~ a base station containing a closed loop power control symbol specifying an extent that power of a signal received at the base station differs from a target power;

processing a signal received from the base station to produce an open loop power control symbol specifying an extent of a change in power for uplink transmissions regarding the random access channel;

generating a power control command as a function of both the closed loop power control symbol and the open loop power control symbol; and

transmitting from the ~~mobile~~ wireless remote station a spread-spectrum signal signifying a second attempt to utilize the random access channel in a manner controlled by the power control command.

12. (Currently Amended) The CDMA wireless remote station as in claim 11, wherein the controller comprises means for mapping combinations of the open loop and closed loop power control ~~symbol~~ symbols into values of the power control command.

13. (Original) The CDMA wireless remote station as in claim 12, wherein:
each of the power control symbols comprises a multi-bit value, and
the means for mapping maps the combinations of multi-bit values for the open loop and closed loop power control symbols into values of the power control command which can selectively specify different levels of increase and decrease in transmission power and a back-off by the wireless remote station.

14. (Currently Amended) The CDMA wireless remote station as in claim 11, wherein the transmitting of the signal signifying ~~[[a]]~~ the first attempt involves computing an initial power estimate and the predetermined power level corresponds to the initial power estimate.